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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/658,703	09/09/2003	Santi Kulprathipanja	108297	2306	
23490 7	7590 11/22/2006		EXAMINER		
HONEYWELL INTELLECTUAL PROPERTY INC			SINGH, F	SINGH, PREM C	
PATENT SERVICES 101 COLUMBIA DRIVE			ART UNIT	PAPER NUMBER	
P O BOX 2245 MAIL STOP AB/2B			1764		
MORRISTOWN, NJ 07962			DATE MAILED: 11/22/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/658,703	KULPRATHIPANJA ET AL.			
		Examiner	Art Unit			
		Prem C. Singh	1764			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a soin sof time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to vill apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on <u>03 O</u>	ctober 2006.				
-	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-21</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>1-21</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	vn from consideration.				
Applicati	on Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>09 September 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	are: a)⊠ accepted or b)⊡ obje drawing(s) be held in abeyance. Se ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12) <u></u> a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	tion No ved in this National Stage			
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-21 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Jones (US Patent 3,303,233).

Jones invention provides an alkylating agent which when condensed with an alkylatable aromatic compound produces an alkylate having a structure suitable for the production of biologically soft detergents therefrom without sacrifice in the yield of product, effectiveness of the final detergent product or its water solubility (Column 2, lines 59-65). The alkylate intermediate, if an alkylaryl hydrocarbon, may be sulfonated and thereafter neutralized with a suitable alkaline base, such as sodium hydroxide to form an alkylaryl sulfonate (anionic) type of detergent which is most widely used for household, commercial and industrial purposes (Column 3, lines 22-28).

The alkyl benzene disclosed in Jones invention is produced by using normal paraffins separated on molecular sieve, dehydrogenating, and reacting with benzene

under typical operating conditions. Alkyl benzene sulfonate in Jones invention is also produced by sulfonating alkyl benzene under typical operating conditions. Thus, alkyl benzene and alkyl benzene sulfonate produced by Jones invention are similar to the claimed compositions.

In the event any differences can be shown for the product of the product-by-process claims 1-21, as opposed to the product taught by the reference to Jones, such differences would have been obvious to one of the ordinary skill in the art as a routine modification of the product in the absence of a showing of unexpected results. See *In re Thorpe*, 227 USPQ 964 (Fed. Cir. 1985).

Response to Arguments

Applicant's arguments filed 10/03/2006 have been fully considered but they are not persuasive.

The Applicant argues that Jones does not teach or suggest a modified alkylbenzene composition or a modified alkylbenzene sulfonate composition produced by a process wherein the phenyl-alkanes have a selectivity to internal quaternary phenyl-alkanes of less than 10 and a selectivity to 2-phenyl-alkanes of from about 40 to about 100. Jones does not produce the modified alkylbenzenes (MAB) recited in claims

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1-21, but instead produces linear alkylbenzenes (LAB) while also describing branched alkylbenzenes (BAB).

The Applicant's argument is not persuasive because Jones is producing linear alkylbenzenes using similar reactants, under similar operating conditions as claimed by the Applicant. Thus, there is no reason why Jones product will not have similar selectivity to internal quaternary phenyl-alkanes and 2-phenyl-alkanes as claimed by the Applicant absent any evidence otherwise.

The Applicant argues that a person of ordinary skill in the art, having read Jones, would not be motivated to modify Jones to produce a product having a selectivity to internal quaternary phenyl-alkanes of less than 10 and a selectivity to 2-phenyl-alkanes of from about 40 to about 100, since Jones repeatedly teaches that his desired alkylates have a straight chain nuclear alkyl substituent or a branched chain alkyl group containing two branches each of straight chain structure, depending on the point of attachment of the aryl group to the linear alkyl chain.

The Applicant's argument is not persuasive because Jones discloses, "The degree of branching in the alkyl chain of the resulting alkylate intermediate will depend upon the degree of branching in the chain of the olefin utilized as the alkylating agent." (Column 4, lines 10-14). Thus, one skilled in the art can control the selectivity as claimed.

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prem C. Singh whose telephone number is 571-272-6381. The examiner can normally be reached on MF 6:30 AM-3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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